G12-12BB

P-type
Bifacial-PERC
Max Efficiency 23.8%

Silicon Solar Cells Specification

The unique bifacial light receiving structure and half-chip design effectively improves the generating capacity of module.

Lower module operating temperature to further increase the power generation and life span of module.

Rigorous grading standards effectively reduce the power loss in the module package.

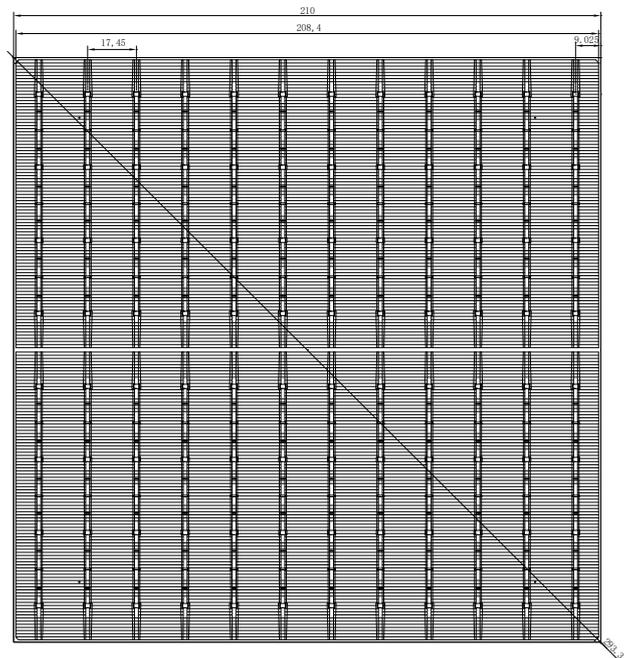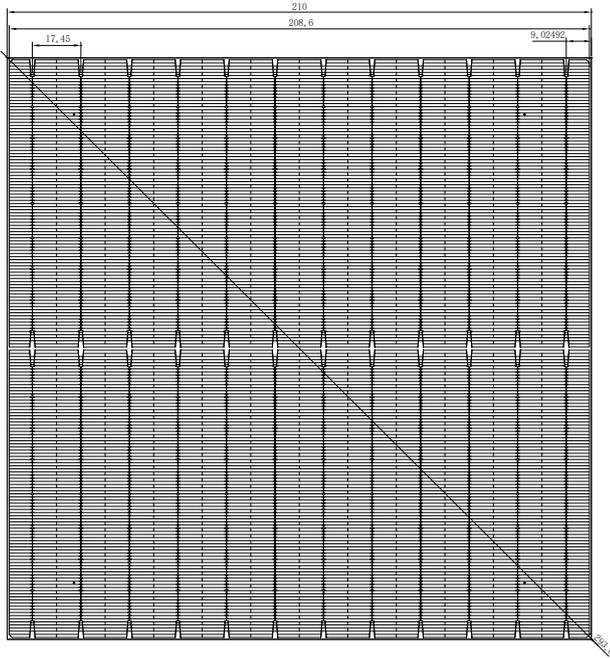Unique finger design, greatly improving the conversion efficiency of the solar cell.

Strict appearance standards improve the passing rate of module production.

Strict pulling force test, to ensure a good weld ability.

Excellent anti-PID performance to ensure the stability of the module power.

Front and back of cell design drawing

Mechanical Characteristics

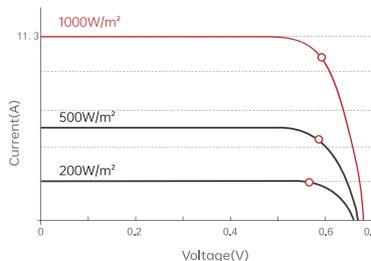|	
Product	RunDa P-type Bifacial-PERC G12 12BB Silicon Solar Cells
Dimension	210mm×210mm, tolerance±0.25mm
Thickness	150μm, tolerance±15μm
Front (anode)	Passivated Emitter(AlOx and SiNx dual layer) Rear Contact(Al), Blue silicon nitride anti-reflection coating, 12 row, The size of the head pad is 0.6 ± 0.1mm.
Back (cathode)	Blue silicon nitride anti-reflection coating,12 row, The size of the head pad is 0.6 ± 0.1mm.

Conversion efficiency Eff (%)	Maximum power Pmax (W)	Open circuit voltage Voc (V)	Short circuit current Isc (A)	Optimum operating voltage Vm (V)	Optimum operating current Im (A)
23.80	10.495	0.698	18.381	0.613	17.120
23.70	10.451	0.697	18.330	0.612	17.076
23.60	10.407	0.696	18.279	0.611	17.032
23.50	10.363	0.695	18.228	0.610	16.988
23.40	10.318	0.694	18.176	0.609	16.943
23.30	10.274	0.693	18.125	0.608	16.899
23.20	10.230	0.692	18.073	0.607	16.854
23.10	10.186	0.691	18.021	0.606	16.809
23.00	10.142	0.690	17.969	0.605	16.764
22.90	10.098	0.689	17.917	0.604	16.719
22.80	10.054	0.688	17.865	0.603	16.673

All data at STC (standard testing conditions): 1000W/m2, AM1.5G, 25℃. Pmax ±1.5%，Efficiency ±0.2% abs.

Temperature coefficients

Power	-0.38%/℃
Current	+0.07% /℃
Voltage	-0.36% /℃

Electrical Curves

Spectral Response